

Plaskolite Optix® CP - 51 KC General Purpose Acrylic Resin

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, General Purpose, Molded , Acrylic, Optical Grade, Molded

Material Notes:

OPTIX® general purpose acrylics are available in a variety of performance grades that offer varying melt flow rates, heat resistance, color/opacity and gloss levels. Information provided by Plaskolite, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plaskolite-Optix-CP-51-KC-General-Purpose-Acrylic-Resin.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D-792
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D-955
Melt Flow	21 g/10 min @Load 3.80 kg, Temperature 230 °C	21 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	ASTM D-785
Tensile Strength	53.8 MPa	7800 psi	ASTM D-638
Elongation at Break	2.6 %	2.6 %	ASTM D-638
Modulus of Elasticity	2.83 GPa	410 ksi	ASTM D-638
Flexural Strength	86.9 MPa	12600 psi	ASTM D-790
Flexural Modulus	2.98 GPa	432 ksi	ASTM D-790
Izod Impact, Notched	0.214 J/cm @Thickness 6.35 mm	0.400 ft-lb/in @Thickness 0.250 in	ASTM D-256
Gardner Impact	0.339 J @Thickness 3.17 mm	0.250 ft-lb @Thickness 0.125 in	Falling Weight; ASTM D-3029 GB

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 µm/m-°C	33.3 µin/in-°F	ASTM D-696
Deflection Temperature at 1.8 MPa (264 psi)	75.6 °C	168 °F	ASTM D-648
Vicat Softening Point	87.8 °C	190 °F	ASTM D-1525

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ASTM D-542
Haze	<= 1.0 %	<= 1.0 %	ASTM D-1003
Transmission, Visible	92 %	92 %	ASTM D-1003

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